

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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|----------------------|----------------------|
| Application Number   | 10/748562            |
| Filing Date          | December 30, 2003    |
| First Named Inventor | Crawford, Gregory P. |
| Art Unit             | Unknown              |
| Examiner Name        | Unknown              |
| Attorney Case Number | 59067US002           |

## U.S. Patent Documents

| Exam. Init.* | Cite No. | Document Number             | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|--------------|----------|-----------------------------|--------------------------------|---|---|
|              |          | Number-Kind Code (if known) |                                |   |   |
| wpc          | A1       | US- 5,389,698               | 02-14-1995                     | Chigrinov et al                                 |   |
| wpc          | A2       | US- 5,838,407               | 11-17-1998                     | Chigrinov et al                                 |   |
| wpc          | A3       | US- 5,909,265               | 06-01-1999                     | Kim et al                                       |   |
|              | A4       | US-                         |                                |   |   |
|              | A5       | US-                         |                                |   |   |

## Foreign Patent Documents

| Exam. Init.* | Cite No. | Foreign Patent Document |                             | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | Translation<br>(Check if yes) |
|--------------|----------|-------------------------|-----------------------------|--------------------------------|---|---|-------------------------------|
|              |          | Ctry. Code              | Number-Kind Code (if known) |                                |   |   |                               |
|              | B1       |                         |                             |                                |   |   |                               |
|              | B2       |                         |                             |                                |   |   |                               |
|              | B3       |                         |                             |                                |   |   |                               |

## OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

| Exam. Init.* | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published |
|--------------|----------|--|
| wpc          | C1       | NIKOLOVA, L. and TODOROV, T.; "Diffraction Efficiency and Selectivity of Polarization Holographic Recording", <i>Optica Acta</i> (1984); Vol. 31, No. 5; pp. 579-588   |
| wpc          | C2       | ICHIMURA, K., et al; "Reversible Change in Alignment Mode of Nematic Liquid Crystals Regulated Photochemically by 'Command Surfaces' Modified with an Azobenzene Monolayer", <i>Langmuir</i> (1988); Vol. 4; American Chemical Society; pp. 1214-1216          |
| wpc          | C3       | ICHIMURA, K., et al; "Reversible Alignment Change of Liquid Crystals Induced by Photochromic Molecular Films,...", <i>Makromol.Chem., Rapid Commun.</i> (1989); Vol. 10; pp. 5-8   |
| wpc          | C4       | GIBBONS, W.M., et al; "Surface-Mediated Alignment of Nematic Liquid Crystals with Polarized Laser Light", <i>Nature</i> (2 May 1991); Vol. 351; pp. 49-50  |
| wpc          | C5       | SCHADT, M., et al; "Surface-Induced Parallel Alignment of Liquid Crystals by Linearly Polymerized Photopolymers", <i>Jpn.Journal of Applied Physics</i> (1992); Vol. 31; pp. 2155-2164   |
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| wpc          | C7       | HASEGAWA, M., and TAIRA, Y.; "Nematic Homogeneous Alignment by Photo Depolymerization of Polyimide", <i>Conf.Record, 14th International Display Research Conference, Monterey</i> (1994); Society for Information Display, San Jose, CA; pp. 213-216           |

\*Examiner:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449A/PTO (modified)

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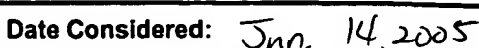
## OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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|--------------|----------|--|
| WPL          | C8       | SCHADT, M., et al; "Photo-Generation of Linearly Polymerized Liquid Crystal Aligning Layers Comprising Novel, Integrated Optically Patterned Retarders and Color Filters", <i>Jpn.Journal of Applied Physics</i> (1995); Vol. 34; pp. 3240-3249                |
| WPL          | C9       | SCHADT, M., et al; "Optical Patterning of Multi-Domain Liquid-Crystal Displays with Wide Viewing Angles", <i>Nature</i> (16 May 1996); Vol. 381; pp. 212-215   |
| WPL          | C10      | KITZEROW, H.-S.; "Polymer-Dispersed and Polymer-Stabilized Chiral Liquid Crystals", <i>Liquid Crystals in Complex Geometries: Formed Polymer and Porous Networks</i> (1996); Ed. G.P. Crawford & S. Zumer; Taylor & Francis; pp. 187-219                       |
| WPL          | C11      | ICHIMURA, K., et al; "Photoreactivity of Polymers with Regioisomeric Cinnamate Side Chains and Their Ability to Regulate Liquid Crystal Alignment", <i>Macromolecules</i> (1997); Vol. 30; American Chemical Society; pp. 903-911                              |
| WPL          | C12      | REZNIKOV, Y., et al; "Photoalignment of Liquid Crystals by Liquid Crystals", <i>Physical Review Letters</i> (28 Feb. 2000); Vol. 84, No. 9; American Physical Society; pp. 1930-1933   |
| WPL          | C13      | KURIHARA, R., et al; "P-68: Fabrication of Defect Free FLCs Using Photo-Alignment and Their Performance Characteristics", <i>SID 00 Digest</i> (2000); ISSN0000-0966X/00/3101-0807; pp. 807-809  |
| WPL          | C14      | LEE, B. and CLARK, N.A.; "Alignment of Liquid Crystals with Patterned Isotropic Surfaces", <i>Science</i> (30 March 2001); Vol. 291; pp. 2576-2580   |
| WPL          | C15      | IBN-ELHAJ, M. and SCHADT, M.; "Optical Polymer Thin Films with Isotropic and Anisotropic Nano-Corrugated Surface Topologies", <i>Nature</i> (12 April 2001); Vol. 410; pp. 796-799   |
| WPL          | C16      | HASEGAWA, M.; "Fabrication of Freely Patterned Aligned Nematic Liquid Crystal Cells Using UV Laser Scanning Photoalignment", <i>Jpn.Journal of Applied Physics</i> (2002); Vol. 41; pp. L201-L202  |
|              | C17      |  |

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